



Presentation to Board of Supervisors

Laguna Seca Community Sound Study



Sonics ESD / 40 Ragsdale Dr. Suite 130 Monterey, CA 93940 / (831) 646-9711

Track Activity

- Measurements Periods of 100+ Track Days, Including 8 Major Events to Date
 - Sea Otter Classic (April 10-12)
 - Laguna Seca SpeedTours - Trans Am (May 2-4)
 - IMSA WeatherTech SportsCar Championship of Monterey (May 9-11)
 - MotoAmerica Superbike SpeedFest at Monterey (July 11-13)
 - INDYCAR Grand Prix of Monterey (July 25-27)
 - Pre-Reunion and Corkscrew Hillclimb (Aug 9-10)
 - Rolex Monterey Motorsports Reunion (Aug 13-16)
 - Ferrari Challenge (Sept 12-14)



“Sound Study Goals and Objectives”

- Previous sound level recording method
- Select a qualified company to collect, analyze, and explore mitigating control measures
- Sound study implemented as a part of Friends of Laguna Seca original business plan to be a good neighbor
- Accurate and comprehensive recording measurement program
- Acquired best sophisticated community sound study software & training to determine a mitigating course of action
- Sophisticated multipoint measurement collection



Original Sound Measurement Program



“Sound Study Goals and Objectives”

- Previous sound level recording method
- Select a qualified company to collect, analyze, and explore mitigating control measures
- Sound study implemented as a part of Friends of Laguna Seca original business plan to be a good neighbor
- Accurate and comprehensive recording measurement program.
- Acquired best sophisticated community sound study software & training to determine a mitigating course of action
- Sophisticated multipoint measurement collection



SONICS ESD

- 41 Year Old Company - SONICS ESD
- 1200+ Completed Projects Domestically & Internationally
- 23 Years Local Business Serving Monterey County
- Principle Jim Barath Ph.D., INCE, ASA
 - Ph.D. in Architectural and Physical Acoustics
 - B.S. Electrical Engineering & M.S. in Laser Physics
 - Former U.S. Air Force Pilot & Associate Professor NPS Monterey
- Staff of Degreed Engineers, IT, CAD, & Architectural Professionals
- Participating Members
 - Sam Patton P.E., Max Martinez B.S.M.E., James Parry Ph.D., Nick Overdevest
- Active Member of Institute of Noise Control Engineers (INCE)
- Active Member of Acoustical Society of America (ASA)

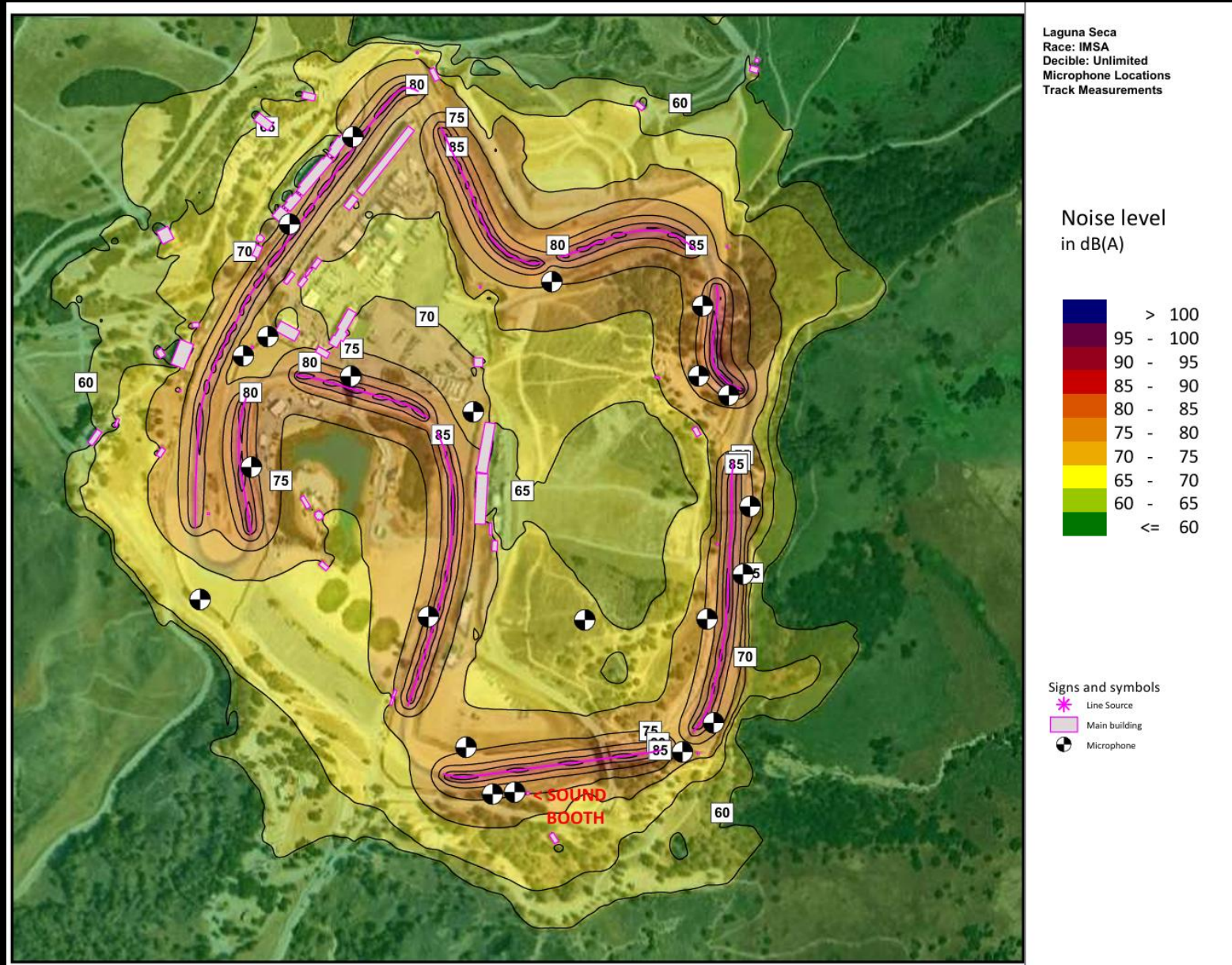


“Sound Study Goals and Objectives”

- Previous sound level recording method
- Select a qualified company to collect, analyze, and explore mitigating control measures
- Sound study implemented as a part of Friends of Laguna Seca original business plan to be a good neighbor
- Accurate and comprehensive recording measurement program
- Acquired best sophisticated community sound study software & training to determine a mitigating course of action
- Sophisticated multipoint measurement collection



Microphone Locations – Track Measurements

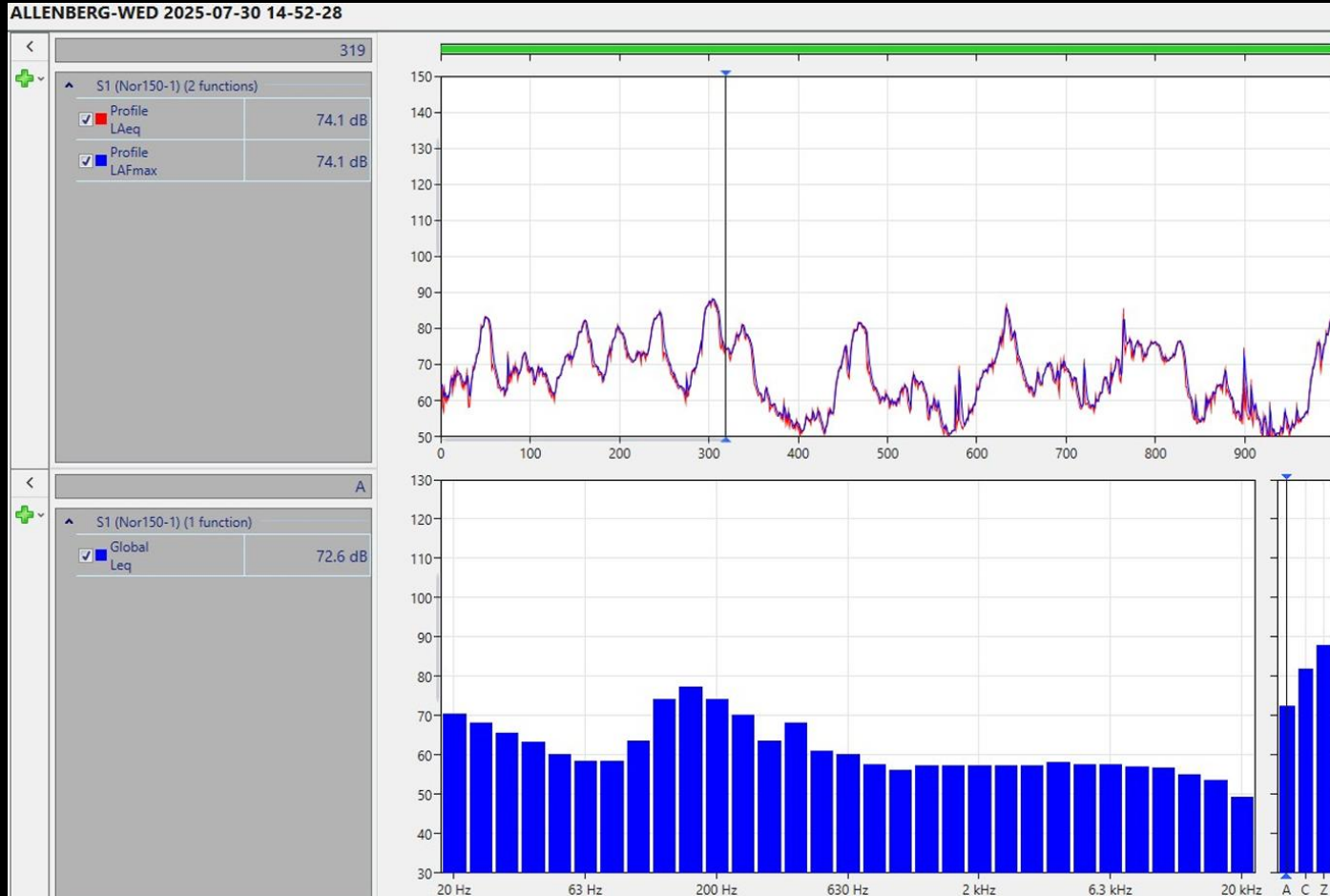


Data Collection

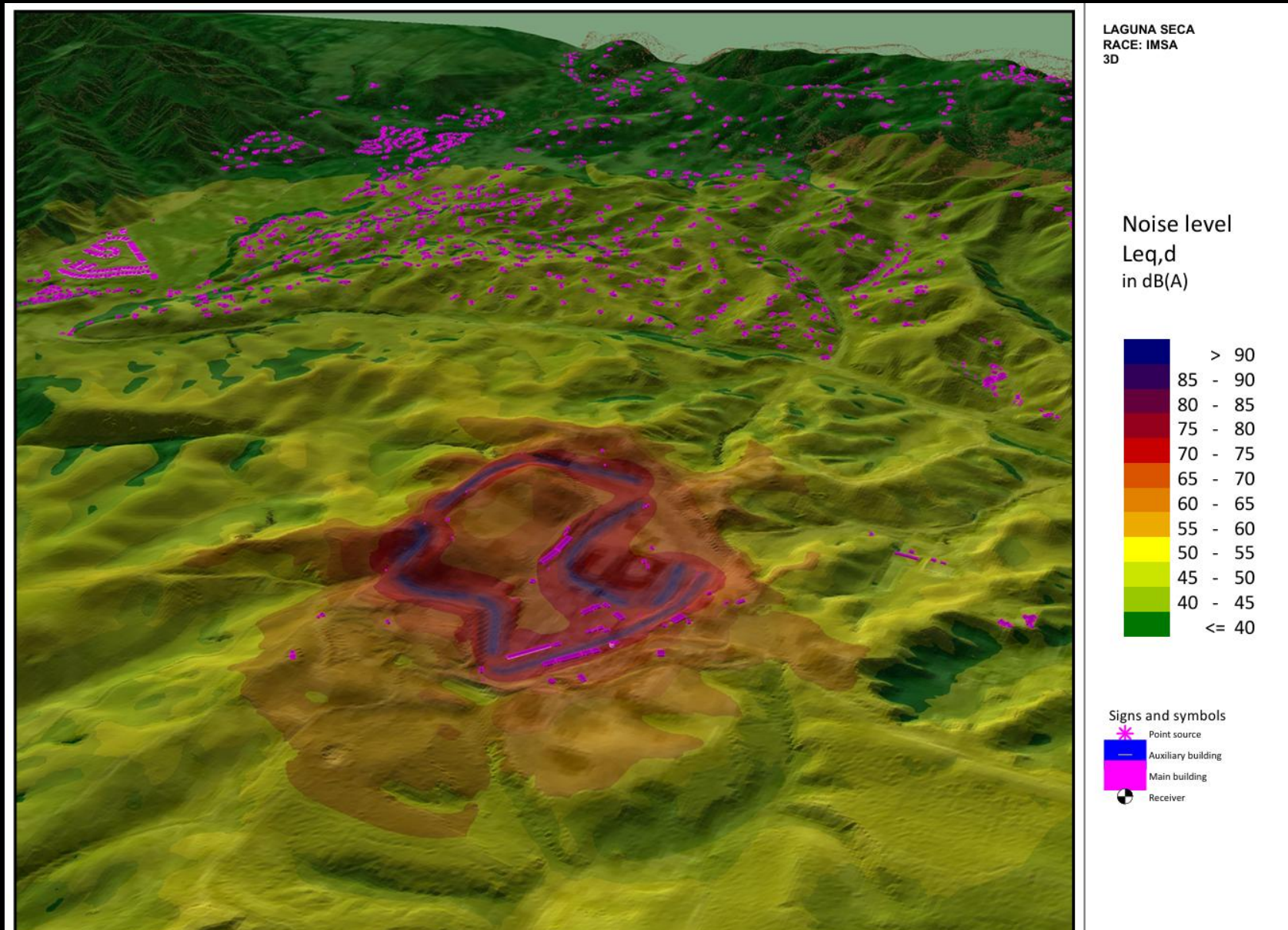
- 22 Measurement Locations Around Track
- Software: SoundPLAN 9.1 Developed in Europe For Sound Management & Control
- Certified Calibrated Class 1 Laboratory Measurement Equipment
- All Measurements Conducted In Compliance ASTM & ISO Standards
- Level and Energy Frequency Spectrum Recording
- USGS LIDAR Data Employed for Topographical Mapping



Typical Data Collection 90dB Day

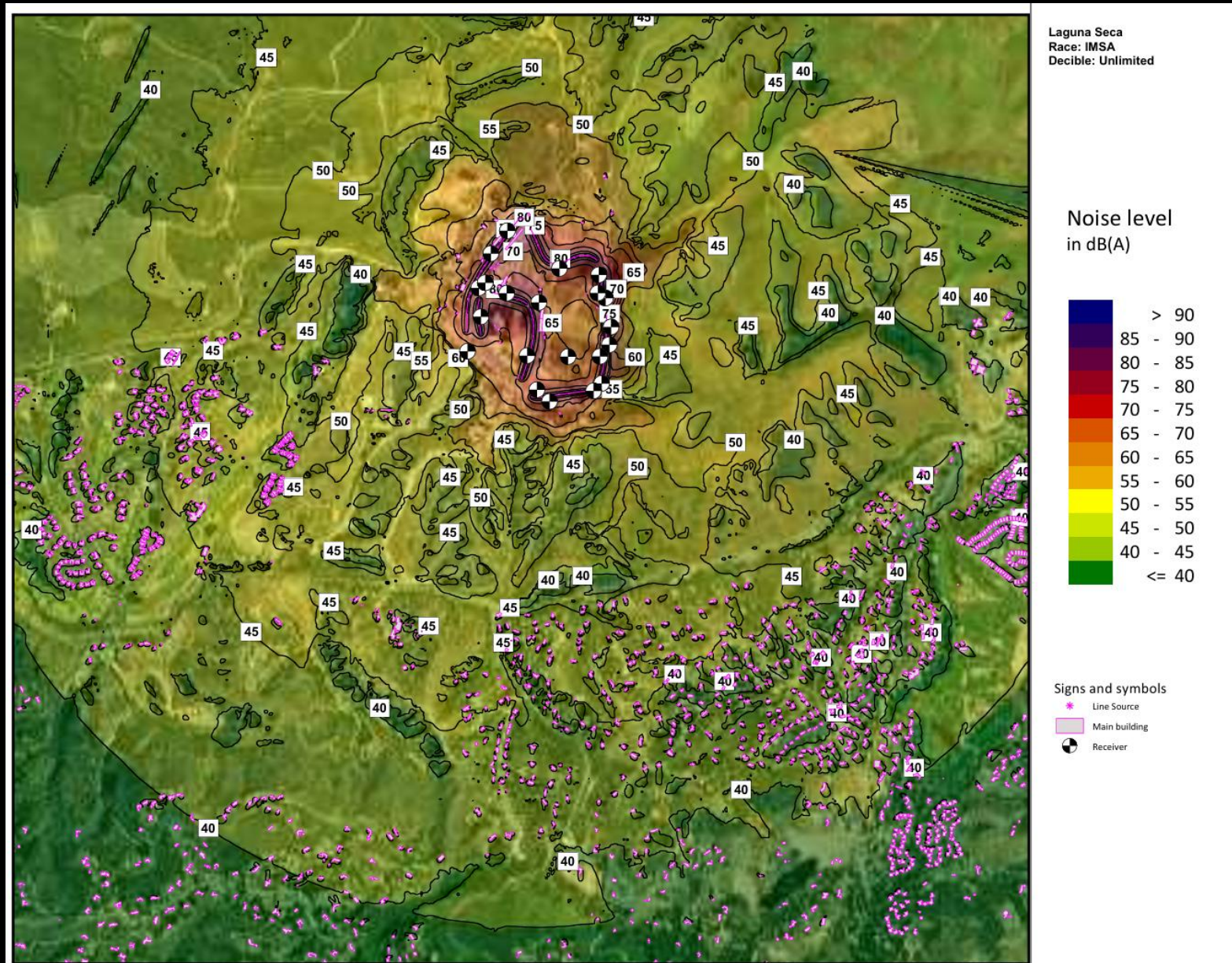


SoundPLAN 3D Mapping Using LIDAR Data



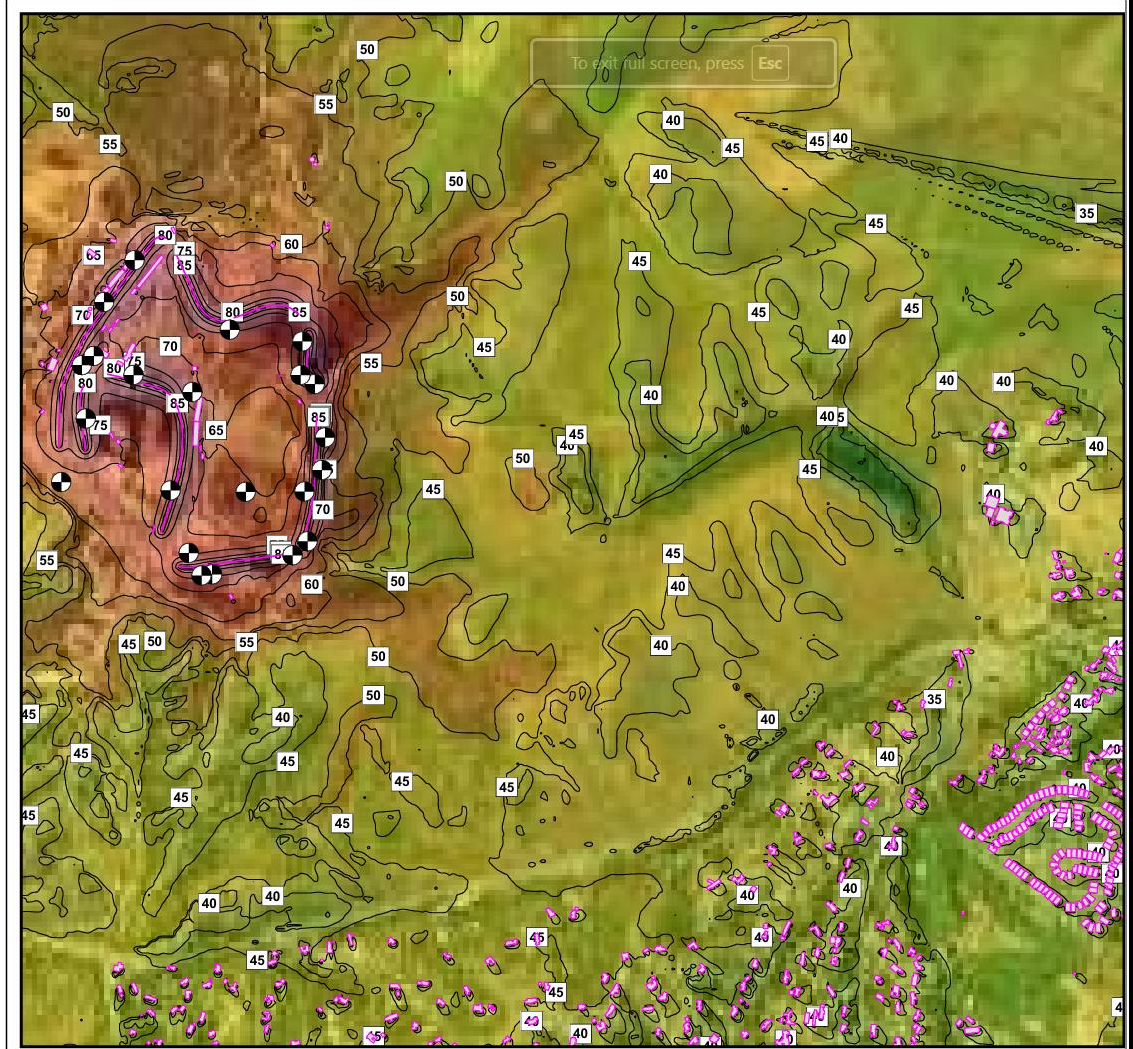
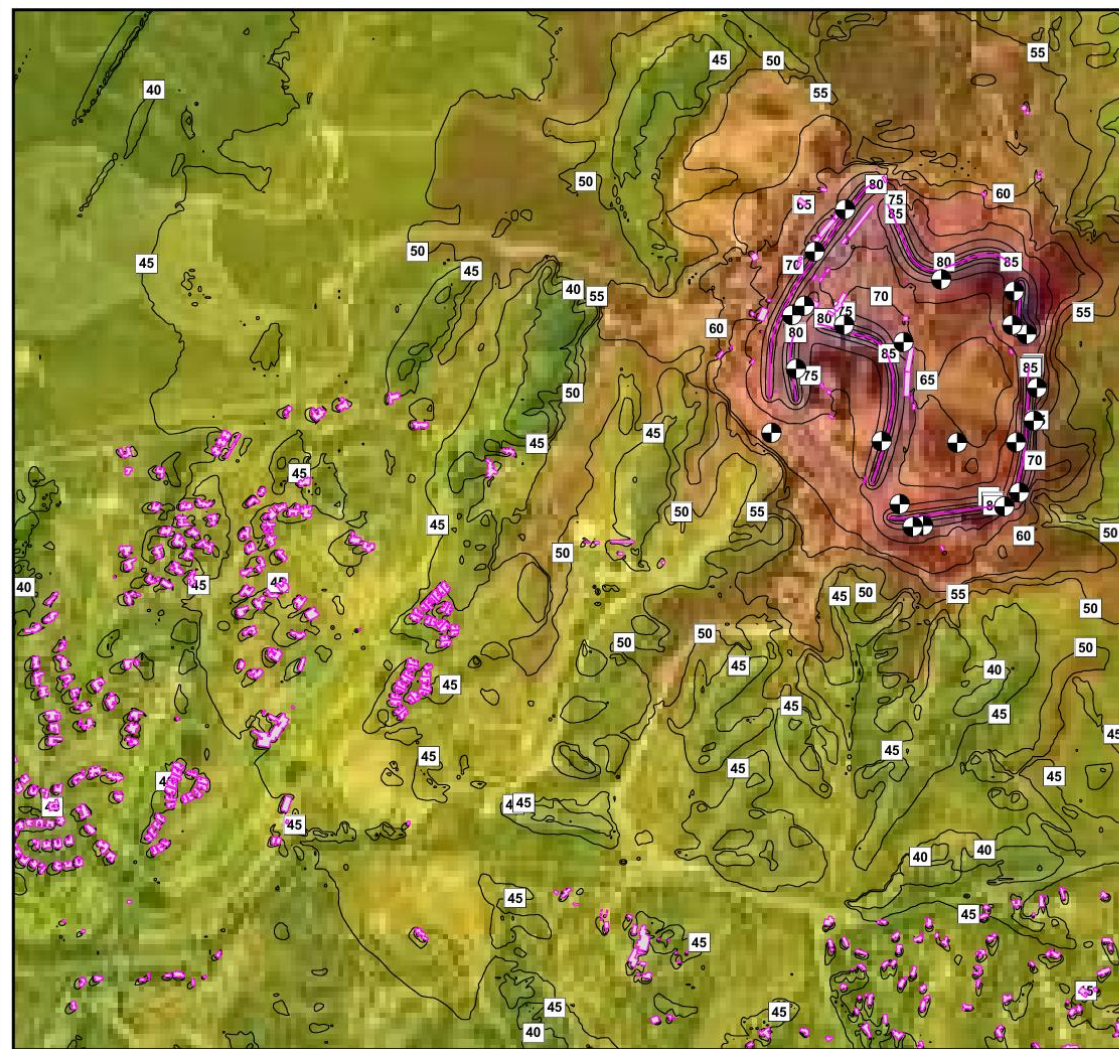
Sound Profile Map - Surrounding Area

IMSA - Unlimited Decibel Day



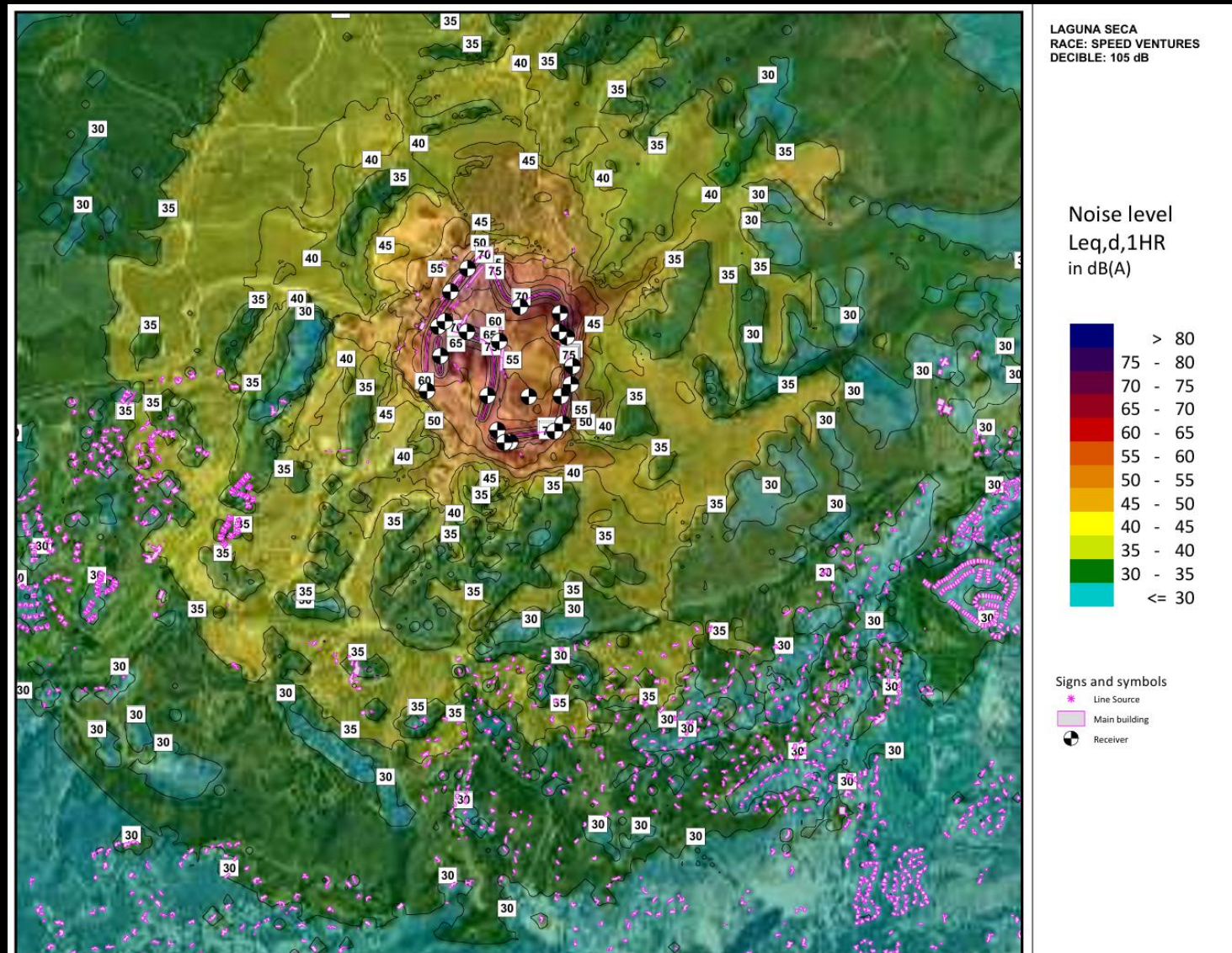
Sound Profile - Pasadera & Coral De Tierra

IMSA - Unlimited Decibel Day

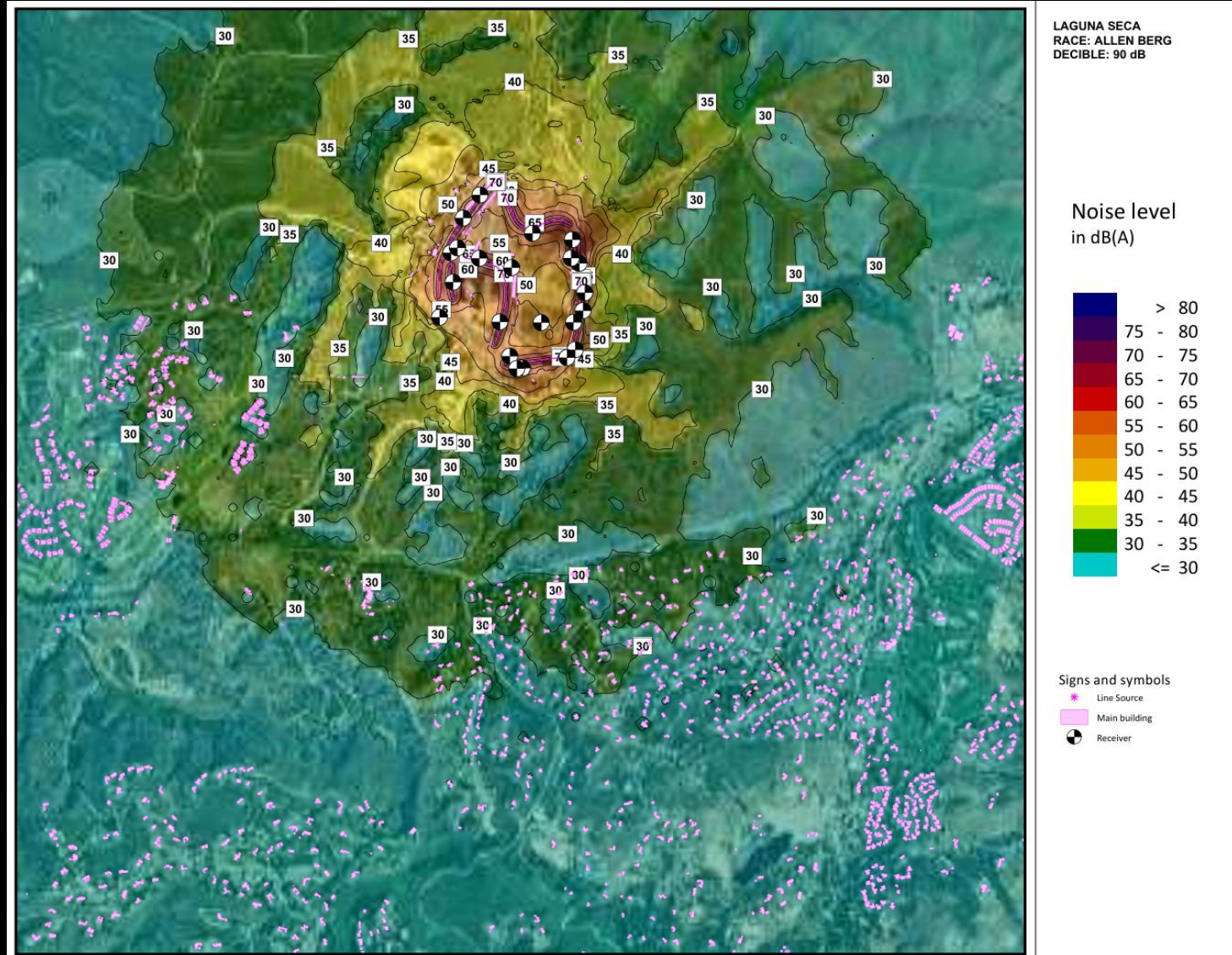


Sound Profile Map - Surrounding Area

Speed Ventures – 105 Decibel Day



Sound Profile Map- Surrounding Area Allen Berg – 90 Decibel Day



Sound Study Look Ahead Program

- Expand Data Collection to include the Highway 68 & Monterey Airport Air Traffic Corridor
- Develop Comprehensive Sound Control Measures for Future Laguna Seca Improvements
- Utilize Industry Technology Advances To Enhance Sound Mitigation Techniques
- Construct Realistic Timeline to Accomplish Goals and Objectives



Conclusions

- Analyze All Sound Study Data (2025 Season)
- Consider & Design Available Mitigating Control Measures
- Consider Sound Reduction Means & Methods To Surrounding Community
- Reduce Laguna Seca Site Operational Sound Levels
- Reinforce Good Neighbor Policies

